

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1 - 2, 4 - 5, 7, 10 - 15, 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nayak (US 2004/0180689) in view of Oswald et al. (US 2005/0088513) in view of Shinohara (US 2002/0132608) in view of Pyhalammi et al. (US 2003/0045273) and in further view of Ellis (US 2004/0103434)

Regarding Claim 1, Nayak teaches a system to provide transmission of video data from a first mobile station to a second mobile station in a network, the system comprising: a mobile switching center, wherein the mobile switching center comprises: a call recognition module operative to validate the second mobile station as capable of receiving the video data (Section 0027).

Nayak does not teach recognizing a call from the first mobile station to the second mobile station as including video data and, if the video data is present, validating the second mobile station as capable of receiving video data, determining a delivery preference for the second mobile station based at least in part on information

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retrieved from at least one database, wherein a subscriber sets the delivery preference by selecting immediate delivery, delayed delivery, blocked delivery, or conditional delivery, a storage module operative to have stored therein the video data; an announcement module operative to selectively prompt, based on the delivery preference, the second mobile station if the second mobile station is validated, receive a response to the prompt from the second mobile station and selectively forward the response; and, a control module operative to store the video data in the storage module upon recognition, receive the response from the announcement module and, based on at least one of the delivery preference and the response, perform at least one of maintaining the video data in the storage module, deleting the video data from the storage module, and forwarding the video data to the second mobile station.

Shinohara, which also teaches determining whether the destination mobile device can receive video data, teaches recognizing a call from the first mobile station to the second mobile station as including video data and, if the video data is present, validating the second mobile station as capable of receiving video data (Sections 0047 – 0048, 0061 – 0065, since the MMS server can notify the destination mobile device of the type of video data said server has recognized that the call includes video data), determining a delivery preference for the second mobile station (Section 0049, the delivery preference is to have multimedia message that is held in the MMS servers immediately forwarded), a storage module operative to have stored therein the video data (Section 0036); an announcement module operative to selectively prompt, based on the delivery preference, the second mobile station if the second mobile station is

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validated (Sections 0045 – 0047, the prompt is the incoming call notification), receive a response to the prompt from the second mobile station and selectively forward the response (Sections 0048, 0049, the response is the reception request); and, a control module operative to store the video data in the storage module upon recognition (Section 0047, upon recognizing a received multimedia message comprising video data said video data is stored in the appropriate server), receive the response from the announcement module and, based on at least one of the delivery preference and the response, perform at least one of maintaining the video data in the storage module, deleting the video data from the storage module, and forwarding the video data to the second mobile station (Sections 0048 – 0049, the video data is forwarded to the mobile telephones).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the above features of Shinohara as an alternative means for achieving the predictable result of determining whether the destination mobile device can receive video data.

Pyhalammi, which also teaches a messaging system that delivers content to mobile devices, teaches the feature of determining a delivery preference for a mobile station based at least in part on information retrieved from at least one database (Section 0021 lines 1 - 8, lines 10 - 13, the user selects from a list, which is the database, of delivery classes or options).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Nayak in view of Shinohara with the above

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delivery preference feature for the purpose of allowing data traffic on the wireless network to be more evenly distributed over a twenty-four day cycle, thus actually increasing the total network throughput, without having to upgrade the wireless network components as taught by Pyhalammi.

Ellis, which also teaches the delivery of video data to the end user, teaches wherein a subscriber sets the delivery preference by selecting immediate delivery, delayed delivery, blocked delivery, or conditional delivery (Section 0156, user can choose the option deliver the video data another time, which is a delay in the delivery).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the above system of Nayak in view of Shinohara and in further view of Pyhalammi with the above concept of Ellis for the purpose of providing the user with the flexibility of choosing when said user wants the desired video content delivered as taught by Ellis.

Regarding Claim 10, Nayak teaches a method for transmitting video data from a first mobile station to a second mobile station in a network, the method comprising: validating the second mobile station as capable of receiving the video data (Section 0027) and wherein the validating is executed within the mobile switching center (Section 0027).

Nayak does not teach recognizing a call from the first mobile station to the second mobile station as including video data, wherein the recognizing is executed within a mobile switching center, and, if the video data is present, validating the second mobile station as capable of receiving video data, determining a delivery preference for

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the second mobile station based at least in part on information retrieved from at least one database; wherein a subscriber sets the delivery preference by selecting immediate delivery, delayed delivery, blocked delivery, or conditional delivery, storing the video data in a storage module; selectively prompting, based on the delivery preference, the second mobile station if the second mobile station is validated; receiving a response to the prompt from the second mobile station; and, based on at least one of the delivery preference and the response, performing at least one of maintaining the video data in the storage module, deleting the video data from the storage module, and forwarding the video data to the second mobile station

Shinohara, which also teaches determining whether the destination mobile device can receive video data, teaches recognizing a call from the first mobile station to the second mobile station as including video data and, if the video data is present, validating the second mobile station as capable of receiving video data (Sections 0047 – 0048, 0061 – 0065, since the MMS server can notify the destination mobile device of the type of video data said server has recognized that the call includes video data), determining a delivery preference for the second mobile station (Section 0049, the delivery preference is to have multimedia message that is held in the MMS servers immediately forwarded); storing the video data in a storage module (Section 0036); selectively prompting, based on the delivery preference, the second mobile station if the second mobile station is validated (Sections 0045 – 0047, the prompt is the incoming call notification); receiving a response to the prompt from the second mobile station (Sections 0048, 0049, the response is the reception request); and, based on at

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least one of the delivery preference and the response, performing at least one of maintaining the video data in the storage module, deleting the video data from the storage module, and forwarding the video data to the second mobile station (Sections 0048 – 0049, the video data is forwarded to the mobile telephones).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the above features of Shinohara as an alternative means for achieving the predictable result of determining whether the destination mobile device can receive video data. The combination of Nayak and Shinohara render a mobile switching center with the claimed recognition capability.

Pyhalammi, which also teaches a messaging system that delivers content to mobile devices, teaches the feature of determining a delivery preference for a mobile station based at least in part on information retrieved from at least one database (Section 0021 lines 1 - 8, lines 10 - 13, the user selects from a list, which is the database, of delivery classes or options).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Shinohara with the above delivery preference feature for the purpose of allowing data traffic on the wireless network to be more evenly distributed over a twenty-four day cycle, thus actually increasing the total network throughput, without having to upgrade the wireless network components as taught by Pyhalammi.

Ellis, which also teaches the delivery of video data to the end user, teaches wherein a subscriber sets the delivery preference by selecting immediate delivery,

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delayed delivery, blocked delivery, or conditional delivery (Section 0156, user can choose the option deliver the video data another time, which is a delay in the delivery).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the above system of Nayak in view of Shinohara and in further view of Pyhalammi with the above concept of Ellis for the purpose of providing the user with the flexibility of choosing when said user wants the desired video content delivered as taught by Ellis.

Regarding Claims 2, 11, Nayak in view of Shinohara in view Pyhalammi and in further view of Ellis teaches all of the claimed limitations recited in Claims 1, 10. Shinohara further teaches wherein the call recognition module validates the second mobile station by performing a look-up operation on a mobile subscriber database (Sections 0037, 0045).

Regarding Claims 4, 12, Nayak in view of Shinohara in view Pyhalammi and in further view of Ellis teaches all of the claimed limitations recited in Claims 1, 10. Shinohara further teaches wherein the prompt comprises a ringing tone (Sections 0047 – 0048, typical mobile phones are notified of an incoming call via a ringing tone).

Regarding Claims 5, 13, Nayak in view of Shinohara in view Pyhalammi and in further view of Ellis teaches all of the claimed limitations recited in Claims 1, 10. Shinohara further teaches wherein the prompt comprises an announcement (Section 0047, the notification is the announcement).

Regarding Claims 14, 19, Nayak in view of Shinohara in view Pyhalammi and in further view of Ellis teaches all of the claimed limitations recited in Claims 1, 10.

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Shinohara further teaches wherein the response comprises at least one of a rejection of the video data, a request for immediate delivery of the video data, and a request for delayed delivery of the video data (Sections 0048 – 0049).

Regarding Claims 7, 15, Nayak in view of Shinohara in view Pyhalammi and in further view of Ellis teaches all of the claimed limitations recited in Claims 1, 10.

Shinohara further teaches a call origination module operative to originate, based on the delivery preference, a subsequent call to the second mobile station to selectively prompt, based on the delivery preference, the second mobile station if the second mobile station is validated (Sections 0044 - 0045, 0047), receive the response to the prompt from the second mobile station and selectively forward the response to the control module (Sections 0048 – 0049).

3. Claims 18, 20, 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nayak (US 2004/0180689) in view of Shinohara (US 2002/0132608) in view of Pyhalammi et al. (US 2003/0045273) and in further view of Kring et al. (US 2003/0105825).

Regarding Claim 18, Nayak teaches a system for transmitting video data from a first mobile station to a second mobile station in a network, the system comprising: a mobile switching center, wherein the mobile switching center comprises: means for recognizing a call from the first mobile station to the second mobile station as including the video data (Sections 0010, 0027); means for validating the second mobile station as capable of receiving the video data (Section 0027).

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Nayak does not teach determining a delivery preference for the second mobile station based at least in part on information retrieved from at least one database, wherein the delivery preferences include a rejection of video data, immediate delivery of video data, delayed delivery of video data and conditional delivery of video data; means for storing the video data in a storage module; means for selectively prompting the second mobile station if the second mobile station is validated; means for receiving a response to the prompt from the second mobile station; and, means for performing, based on at least one of the delivery preference and the response, at least one of maintaining the video data in the storage module, deleting the video data from the storage module, and forwarding the video data to the second mobile station

Shinohara, which also teaches determining whether the destination mobile device can receive video data, teaches determining a delivery preference for the second mobile station (Section 0049, the delivery preference is to have multimedia message that is held in the MMS servers immediately forwarded), wherein the delivery preferences include immediate delivery of video data (Section 0049, multimedia message that is held in the MMS servers immediately forwarded upon receipt of the reception requests) and conditional delivery of video data (Section 0049, the delivery preference is to have multimedia message that is held in the MMS servers immediately forwarded, the video data will be delivered if the user sends a reception request, which is the condition, thus there will be conditional delivery of data), means for storing the video data in a storage module (Section 0036); means for selectively prompting the second mobile station if the second mobile station is validated (Sections 0045 – 0047,

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the prompt is the incoming call notification); means for receiving a response to the prompt from the second mobile station (Sections 0048, 0049, the response is the reception request), and, means for performing, based on at least one of the delivery preference and the response, at least one of maintaining the video data in the storage module, deleting the video data from the storage module, and forwarding the video data to the second mobile station (Sections 0048 – 0049, the video data is forwarded to the mobile telephones).

Pyhalammi, which also teaches a messaging system that delivers content to mobile devices, teaches the feature of determining a delivery preference for a mobile station based at least in part on information retrieved from at least one database (Section 0021 lines 1 - 8, lines 10 - 13, the user selects from a list, which is the database, of delivery classes or options) and a delivery preference that includes delayed delivery of video data (Sections 0021 lines 1 - 8, 0029 lines 1 - 5).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Nayak in view of Shinohara with the above delivery preference feature for the purpose of allowing data traffic on the wireless network to be more evenly distributed over a twenty-four day cycle, thus actually increasing the total network throughput, without having to upgrade the wireless network components as taught by Pyhalammi.

Kring teaches delivery preferences including a rejection of video data and delayed delivery of the video data (Sections 0010 lines 1 – 4, 0034, 0058 lines 1 – 8, 0093 – 0098, discarding a message corresponds to rejection of a message).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Nayak in view of Shinohara and in further view of Pyhalammi with the policy based management feature of Kring for the purpose of improving data management in the mobile network as taught by Kring.

Regarding Claim 20, Nayak in view of Shinohara in view of Pyhalammi and in further view of Kring teaches all of the claimed limitations recited in Claim 18. Shinohara further teaches a call origination module operative to originate, based on the delivery preference, a subsequent call to the second mobile station to selectively prompt, based on the delivery preference, the second mobile station if the second mobile station is validated (Sections 0044 - 0045, 0047), receive the response to the prompt from the second mobile station and selectively forward the response to the control module (Sections 0048 – 0049).

Regarding Claim 23, Nayak in view of Shinohara in view of Pyhalammi and in further view of Kring teaches all of the claimed limitations recited in Claim 18. Shinohara further teaches wherein the response comprises at least one of a rejection of the video data, a request for immediate delivery of the video data, and a request for delayed delivery of the video data (Sections 0048 – 0049).

4. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nayak (US 2004/0180689) in view of Shinohara (US 2002/0132608) in view of Pyhalammi et al. (US 2003/0045273), as applied to Claim 1 above, and further in view of Tervo et al. (US 2004/0207719).

Regarding Claim 3, Nayak in view of Shinohara in view of Pyhalammi teaches all of the claimed limitations recited in Claim 1. Nayak in view of Shinohara in view of Pyhalammi does not teach wherein the storage module is a first-in, first-out (FIFO) buffer.

Tervo teaches a storage module that is a first-in, first-out buffer (Section 0036 lines 6 – 12).

Shinohara in view of Pyhalammi and Tervo both teach an MMS system in which video data is stored for subsequent forwarding to a mobile terminal thus it would have been obvious to one of ordinary skill in the art at the time the invention was made to use the first-in, first-out buffer of Tervo as an alternative means for achieving the same predictable result of storing video data for subsequent forwarding to a mobile terminal.

5. Claims 8, 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nayak (US 2004/0180689) in view of Shinohara (US 2002/0132608) in view of Pyhalammi et al. (US 2003/0045273), as applied to Claims 1, 10 above, and further in view of Cox et al. (US 2001/0044325).

Regarding Claims 8, 16, Nayak in view of Shinohara in view of Pyhalammi teaches all of the claimed limitations recited in Claims 1, 10. Nayak in view of Shinohara in view of Pyhalammi does not teach wherein the announcement module provides a signal to the first mobile station that delivery will be blocked if the call recognition module does not validate the second mobile station.

Cox teaches providing a signal to a mobile station that delivery will be blocked if the called device is not validated (Section 0048).

It would have been obvious to one of ordinary skill in the art at the time the invention to modify the system of Nayak in view of Shinohara in view of Pyhalammi with the call blocking circuitry and method of Cox for the purpose of enabling an effective management of the wireless telephones by an organization that issues said wireless telephones to selected employees as taught by Cox thus adding versatility to the system of Nayak in view of Shinohara in view of Pyhalammi via enabling the system of Nayak in view of Shinohara in view of Pyhalammi to be used in a corporate environment.

6. Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nayak (US 2004/0180689) in view of Shinohara (US 2002/0132608) in view of Pyhalammi et al. (US 2003/0045273) in view of Kring et al. (US 2003/0105825), as applied to Claim 18 above, and further in view of Cox et al. (US 2001/0044325).

Regarding Claim 21, Nayak in view of Shinohara in view of Pyhalammi and in further view of Kring teaches all of the claimed limitations recited in Claim 18. Nayak in view of Shinohara in view of Pyhalammi and in further view of Kring does not teach wherein the announcement module provides a signal to the first mobile station that delivery will be blocked if the call recognition module does not validate the second mobile station.

Cox teaches providing a signal to a mobile station that delivery will be blocked if the called device is not validated (Section 0048).

It would have been obvious to one of ordinary skill in the art at the time the invention to modify the system of Nayak in view of Shinohara in view of Pyhalammi and in further view of Kring with the call blocking circuitry and method of Cox for the purpose of enabling an effective management of the wireless telephones by an organization that issues said wireless telephones to selected employees as taught by Cox thus adding versatility to the system of Nayak in view of Shinohara in view of Pyhalammi and in further view of Kring thus enabling the system of Nayak in view of Shinohara in view of Pyhalammi and in further view of Kring to be used in a corporate environment.

7. Claims 9, 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nayak (US 2004/0180689) in view of Shinohara (US 2002/0132608) in view of Pyhalammi et al. (US 2003/0045273), as applied to Claims 1, 10 above, and further in view of Turunen (US 7,289,792)

Regarding Claims 9, 17, Nayak in view of Shinohara in view of Pyhalammi teaches all of the claimed limitations recited in Claims 1, 10. Nayak in view of Shinohara in view of Pyhalammi does not teach wherein the control module deletes the video data from the storage module if the call recognition module does not validate the second mobile station.

Turunen teaches a multimedia system in which video data is deleted from storage (Cols. 1 lines 21 – 31, 9 lines 29 – 58, the store and forward feature comprises

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storing the message temporarily and then forwarding said message, which further comprises deleting said message from storage).

Nayak in view of Shinohara in view of Pyhalammi and Turunen both teach a wireless multimedia system in which video data is stored and forwarded to mobile devices thus it would have been obvious to one of ordinary skill in the art at the time the invention was made to use the store and forward method of Turunen as an alternative means for achieving the same predictable result of storing and forwarding video data to mobile devices.

8. Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nayak (US 2004/0180689) in view of Shinohara (US 2002/0132608) in view of Pyhalammi et al. (US 2003/0045273) in view of Kring et al. (US 2003/0105825), as applied to Claim 18 above, and further in view of Turunen (US 7,289,792)

Regarding Claim 22, Nayak in view of Shinohara in view of Pyhalammi and in further view of Kring teaches all of the claimed limitations recited in Claim 18.

Nayak in view of Shinohara in view of Pyhalammi and in further view of Kring does not teach wherein the control module deletes the video data from the storage module if the call recognition module does not validate the second mobile station.

Turunen teaches a multimedia system in which video data is deleted from storage (Cols. 1 lines 21 – 31, 9 lines 29 – 58, the store and forward feature comprises storing the message temporarily and then forwarding said message, which further comprises deleting said message from storage).

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Nayak in view of Shinohara in view of Pyhalammi in further view of Kring and Turunen both teach a wireless multimedia system in which video data is stored and forwarded to mobile devices thus it would have been obvious to one of ordinary skill in the art at the time the invention was made to use the store and forward method of Turunen as an alternative means for achieving the same predictable result of storing and forwarding video data to mobile devices.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to RAYMOND DEAN whose telephone number is (571)272-7877. The examiner can normally be reached on Monday-Friday 6:00-2:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward F. Urban can be reached on 571-272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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/Raymond S Dean/
Primary Examiner, Art Unit 2618
Raymond S. Dean
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